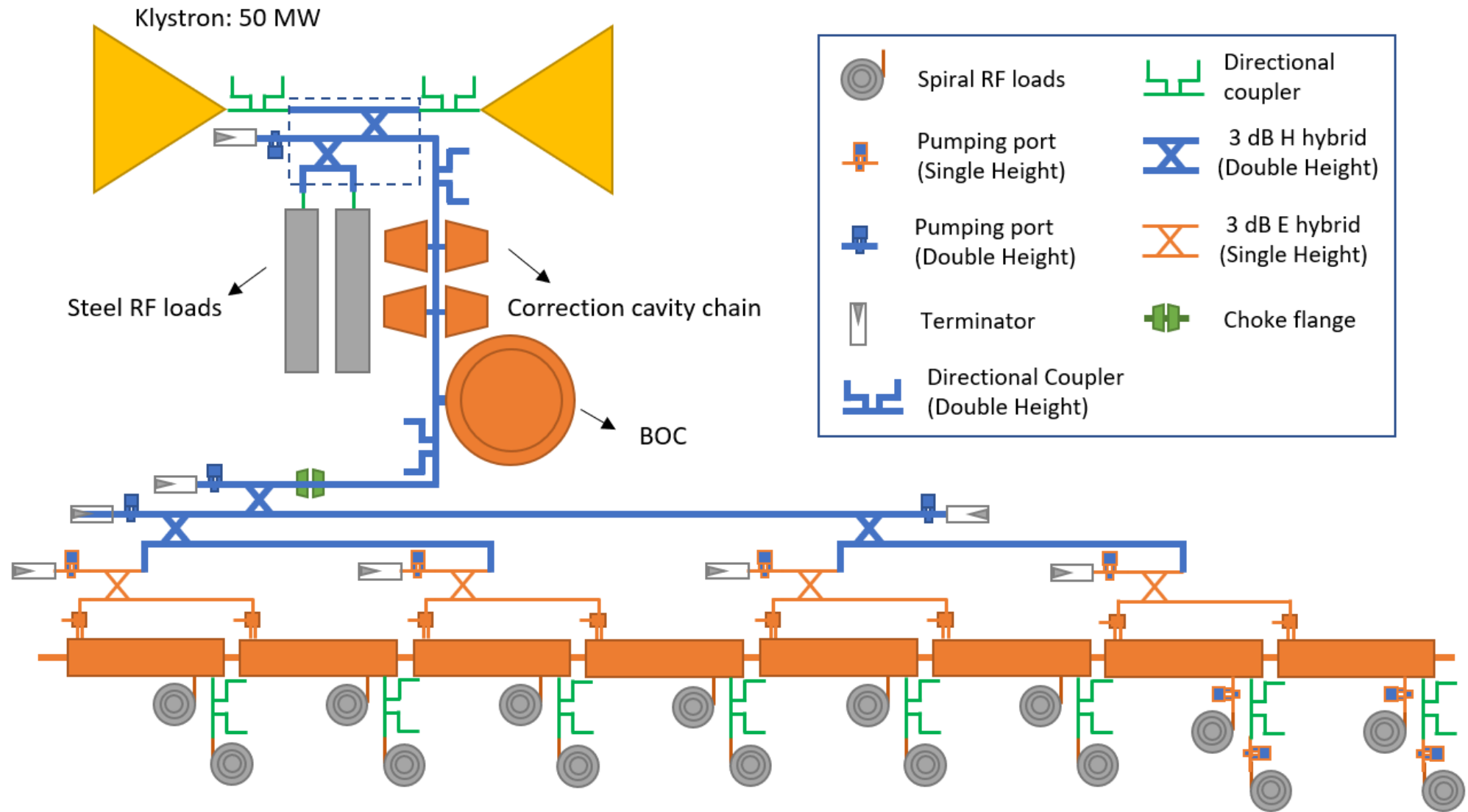


Choke flange and RF network for klystron-based CLIC

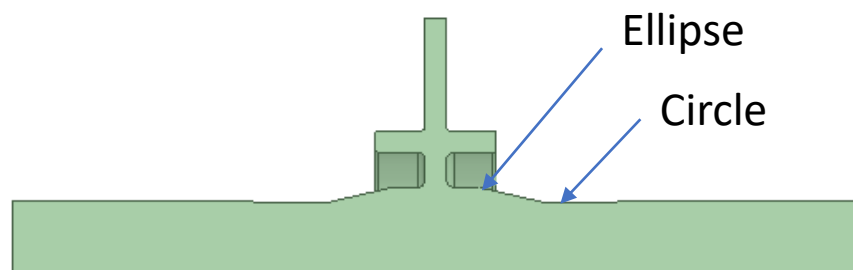
Ping Wang, Alexej Grudiev

07.03.2023

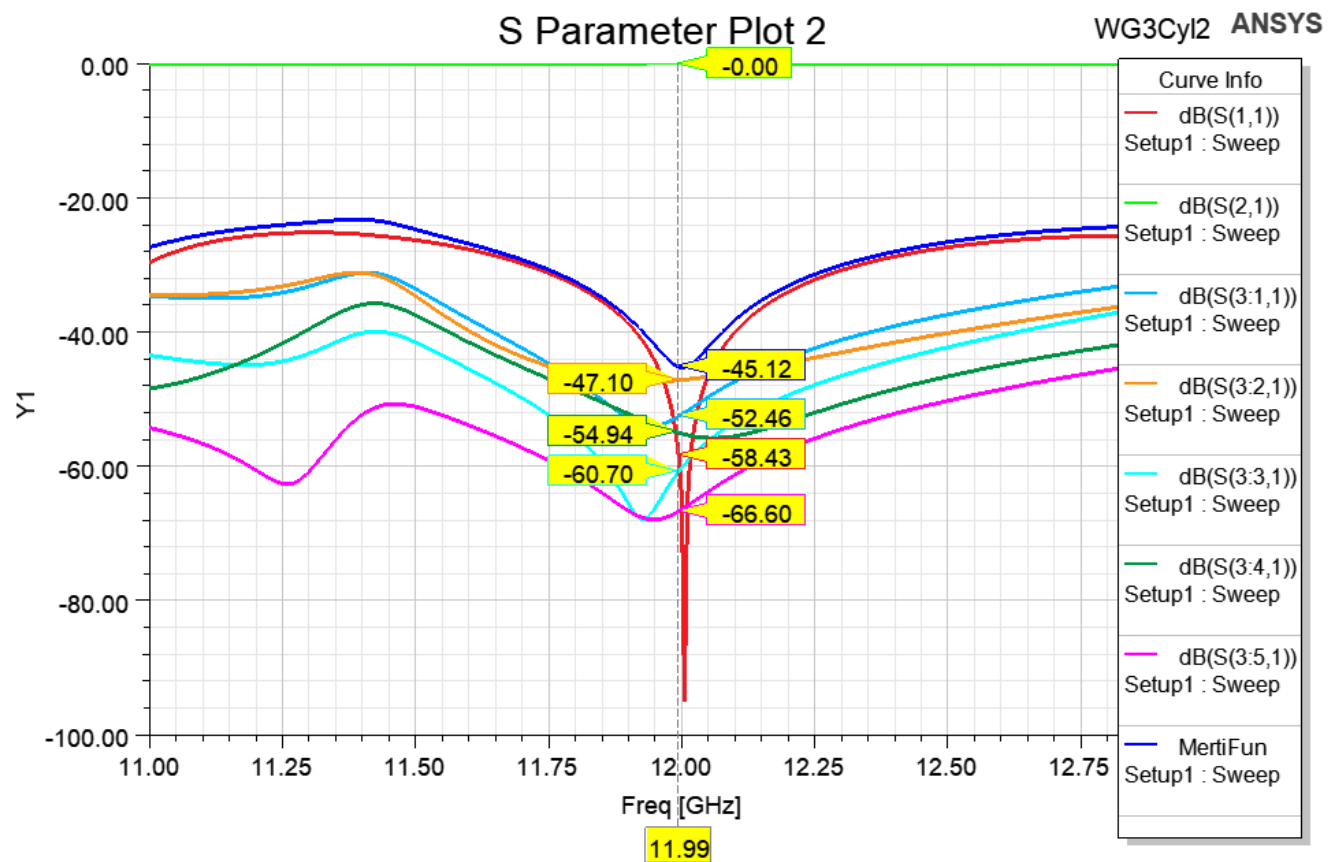
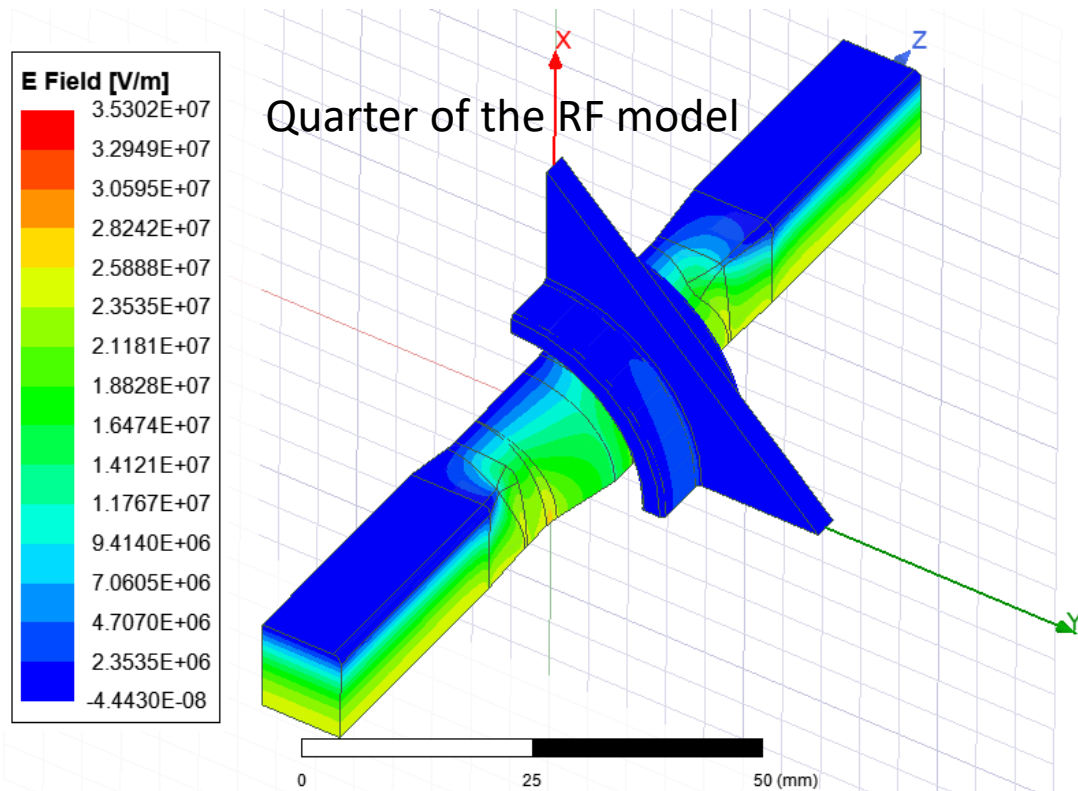
Preliminary schematic layout of the RF module for klystron-based CLIC



Choke flange



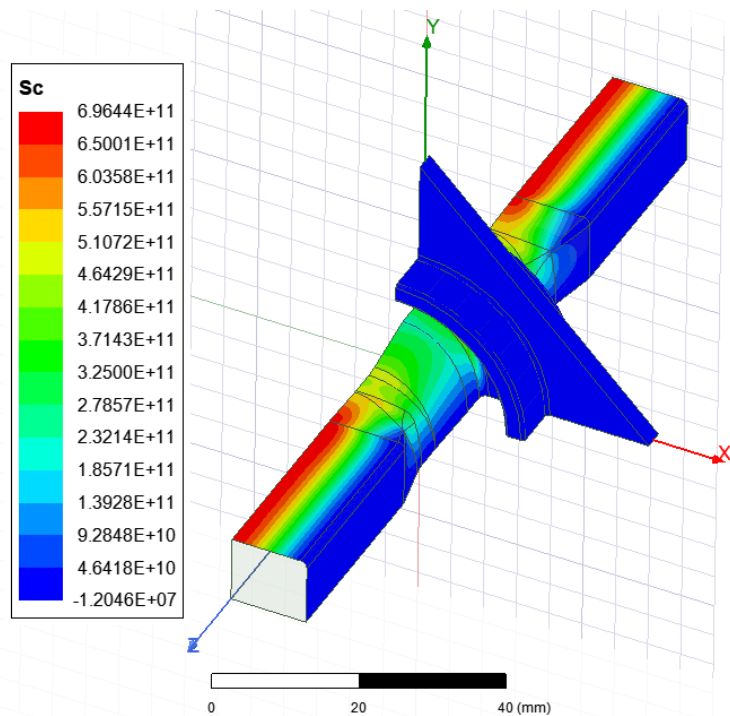
MertiFun $db10(1-mag(S(2,1)))^2$



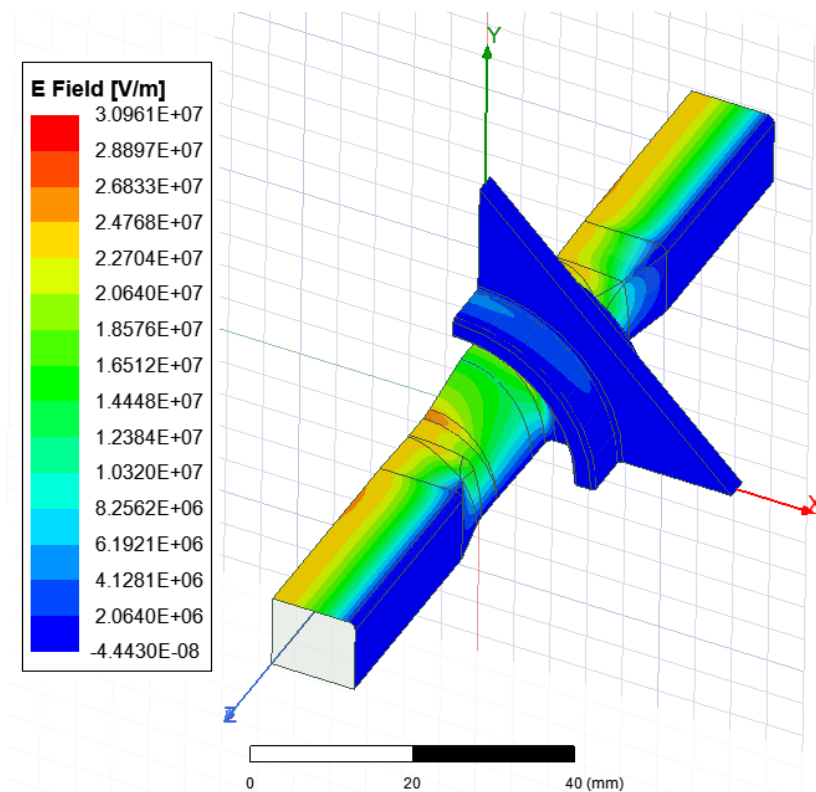
Choke flange

Input power: 100 MW

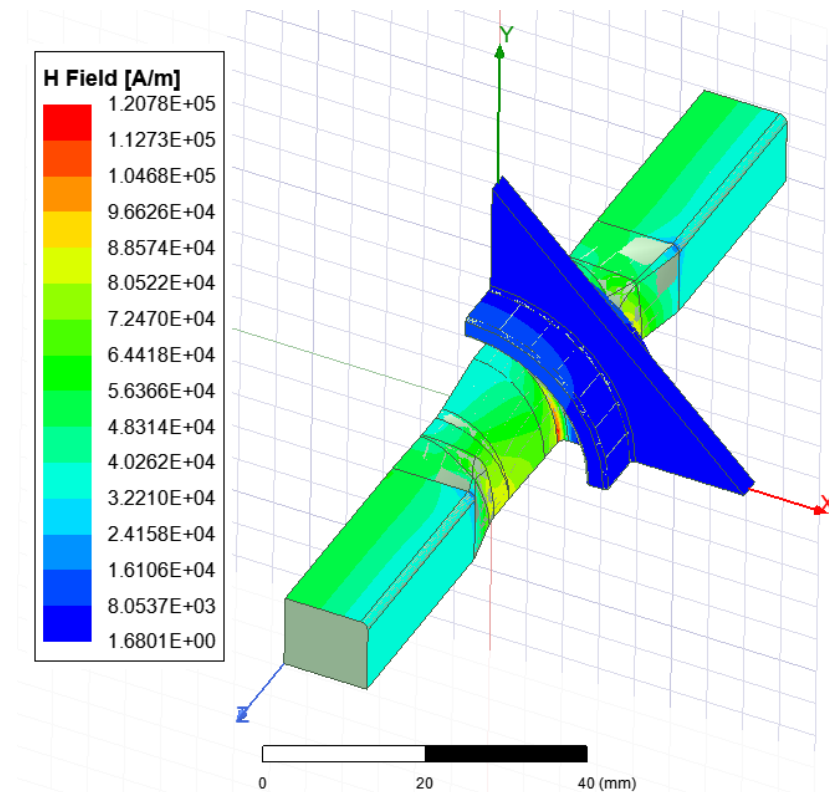
Sc: $4.43e11$ W/m²



Es: 20.9 MV/m



Hs: 85.1 MV/m

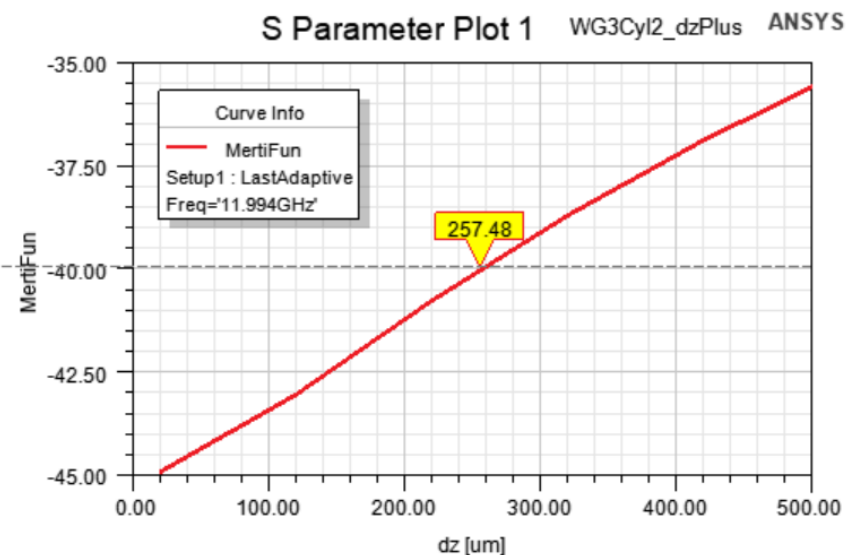
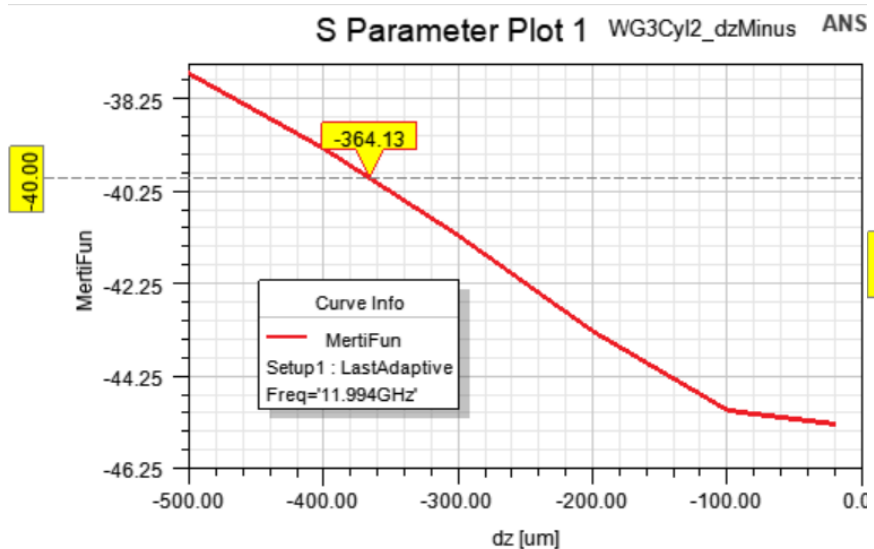
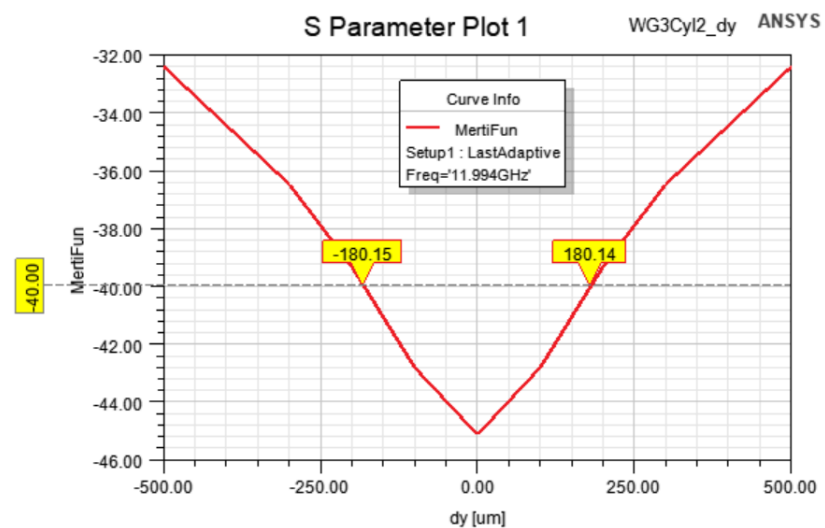
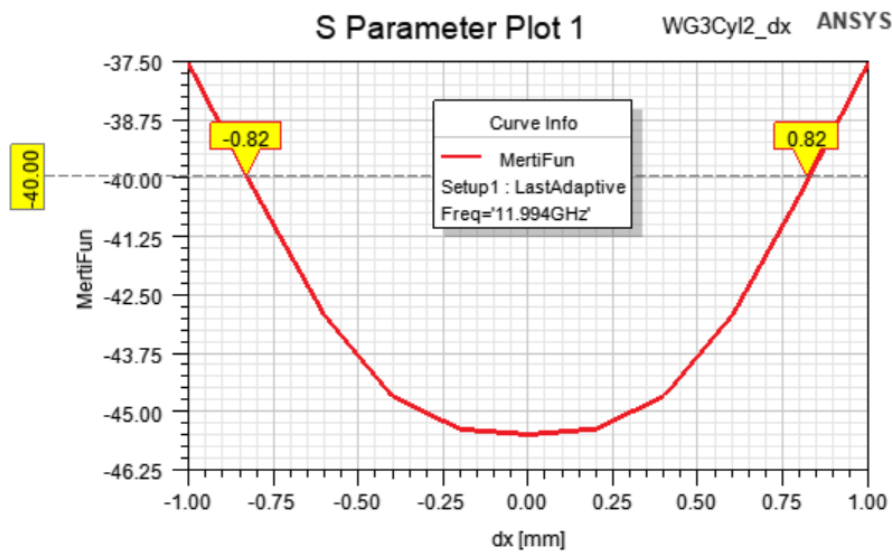
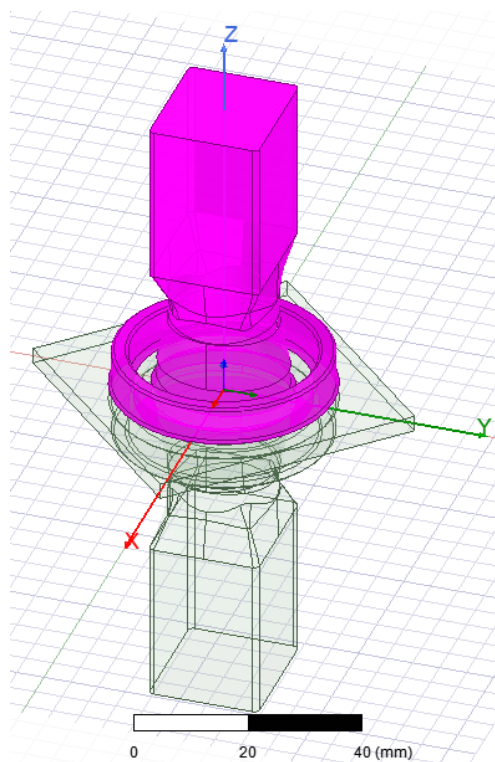


Choke flange

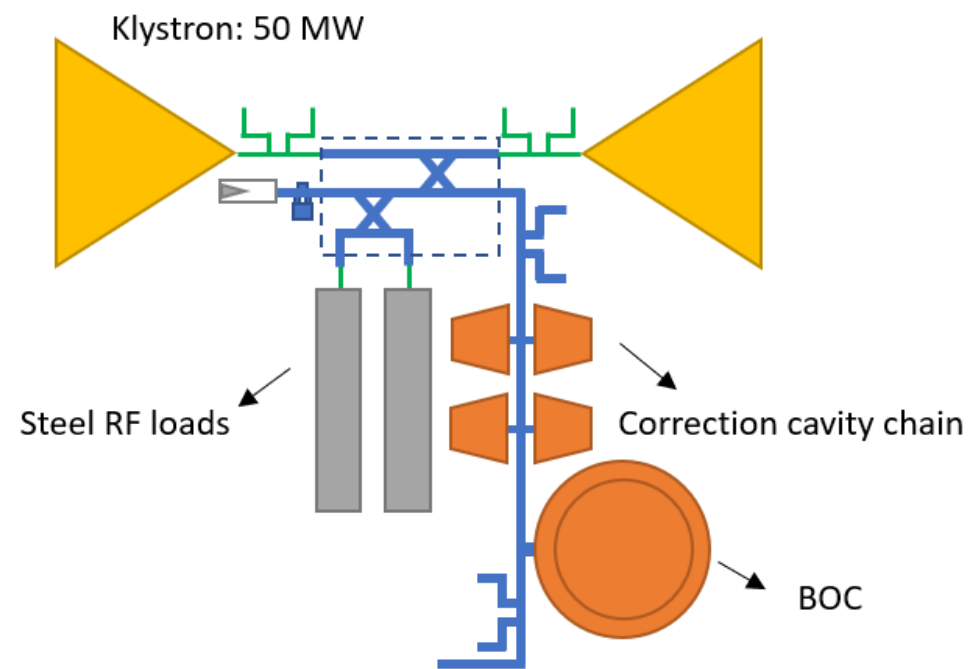
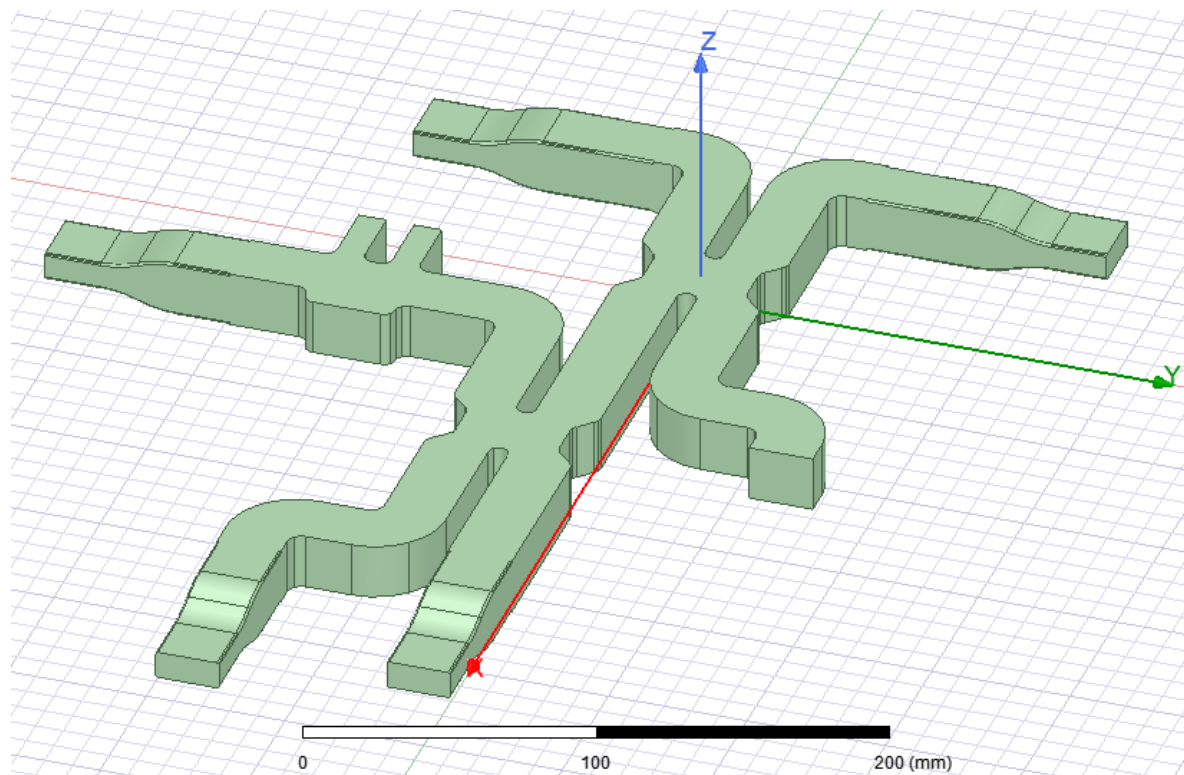
$$\text{MertiFun } \text{db}10(1-\text{mag}(S(2,1))^2)$$

MeritFun < -40 dB

Direction	Range [mm]
X	± 0.82
Y	± 0.18
Z	-0.36, +0.26



RF Power Combiner



RF Power Divider

